



CALIFORNIA

Agricultural Bulletin

July 2002
(Internet Version)

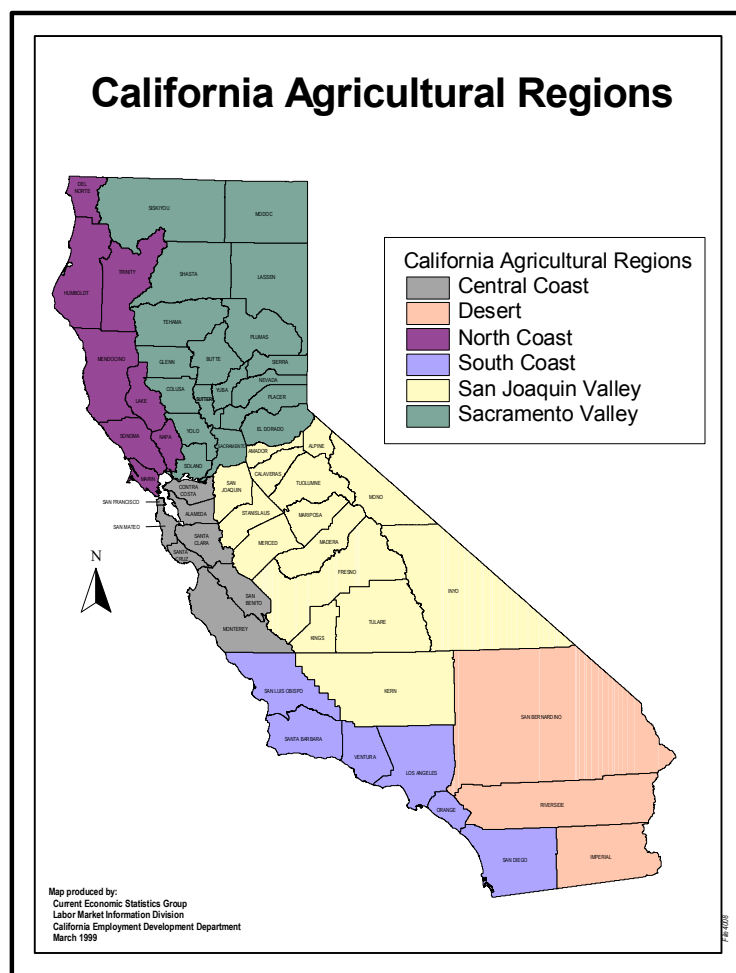


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Agricultural Overview

This bulletin covers 27 agricultural industries in the State of California. The number of industries ranges from five to seventeen within each of the six geographic regions. The regions are the San Joaquin Valley, South Coast, Desert, Central Coast, Sacramento Valley, and North Coast (refer to map for details).



The data are organized into the following tables by state and region:

- Wage and Salary Workers
- Average Hourly Earnings

Summary

Employment

California's total agricultural employment for July 2002 decreased by 21,300 jobs from the previous month, a loss of five percent. Total Agricultural Production decreased 29,300 jobs from June 2002 to July 2002, a loss of 12 percent. Agricultural Services increased by 8,000 jobs, a gain of four percent. Changes in agricultural employment from June to July vary from year to year. The change in California agricultural employment from June 2001 to July 2001 was a decrease of 14,300 jobs.

Grape crops registered the largest decrease for the month with a loss of 9,700 jobs. The Other Field Crops category registered a significant decrease with 7,900 jobs lost. The largest increase for the month was seen in Ornamental Floral and Nursery crops where 8,100 jobs were added. Total agricultural employment decreased 21 percent in the South Coast Region, 20 percent in the Desert Region, seven percent in the North Coast Region, and five percent in the Central Coast Region. Agricultural employment increased nine percent in the Sacramento Valley Region and two percent in San Joaquin Valley Region.

Production and Crop Activity

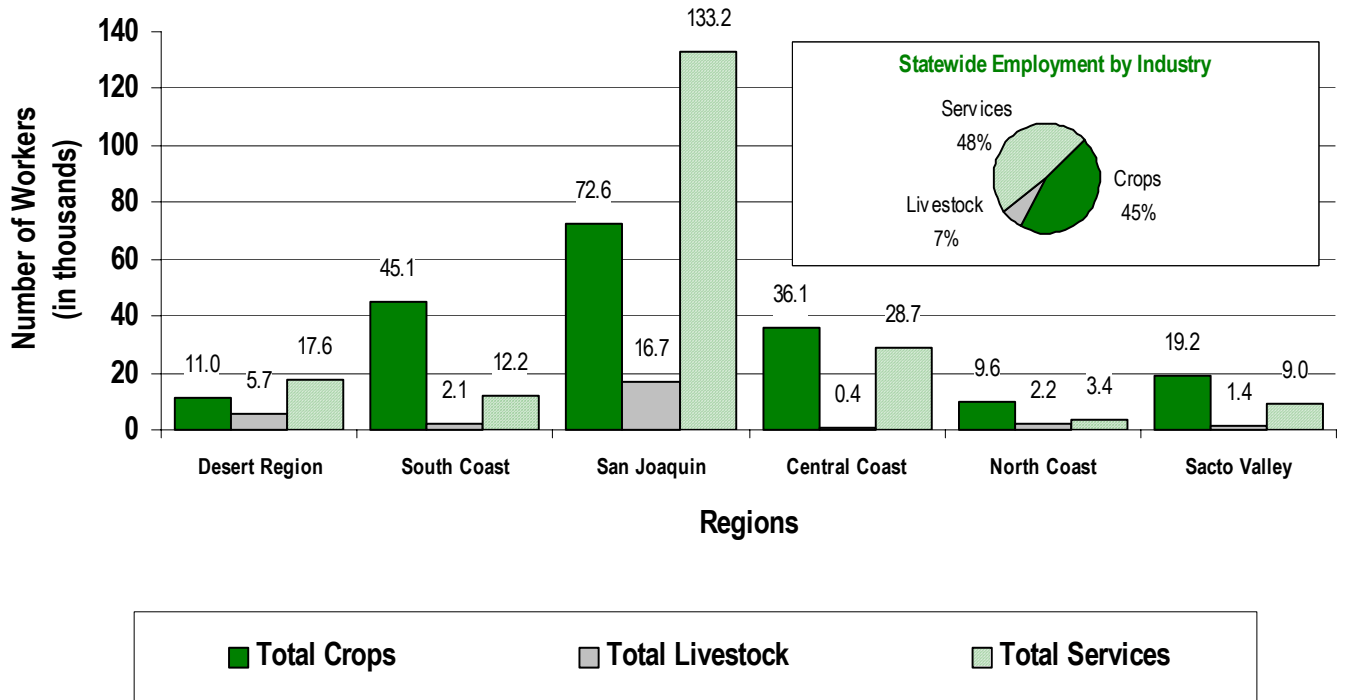
Cotton fields were irrigated, weeded and treated for diseases and insect pests as necessary. Alfalfa hay was cut, windrowed, baled and stacked in many areas. Irrigation and treatments to control insect pests were in progress in some alfalfa fields. Bees were placed in several locations to aid in pollination. Harvesting of wheat and oats continued. The wheat harvest was nearly complete in the San Joaquin and Sacramento valleys. Straw in harvested grain fields was baled and stacked. Discing and leveling of harvested fields continued in preparation for fall planting. Harvesting of silage corn for animal feed and sugar beets continued in many locations. Fungicides were applied in some rice fields. Some late-planted rice received weed treatments. Potato harvesting continued. Cantaloupe, watermelon and honeydew melons were harvested in the west side districts of Fresno County. Irrigation was underway in many unharvested melon fields. Harvesting of sweet corn, garlic, squash, cucumbers, eggplant and peppers was in full swing. In Tulare County, the second harvest of Black Beauty eggplant was disappointing, and many local blocks were removed and replanted. Harvested red onions were being packed in the field. In Merced County, some planting continued for late season fresh market and processed tomatoes. Harvesting of cucumbers, early watermelon, fresh market tomato and bell peppers also continued. The following vegetables were also harvested: broccoli, carrots, cauliflower, Swiss chard, chives, garlic, okra, radishes, spinach, and squash.

Active harvesting of table grapes continued as more vineyards reached maturity. Irrigation, cultivation and fungicide and insecticide applications continued as needed. Stone fruit was harvested as late varieties reached maturity. Whitewash was applied to apples to prevent sunburn. Gala apple harvesting began in the Firebaugh district. Fig and strawberry harvesting was ongoing. Spraying for the olive fruit fly continued in olive groves. Valencia orange harvesting slowed. Grapefruit harvesting continued. Lemons were harvested in the coastal areas. Irrigation activity increased in many nut orchards due to warm temperatures. Codling moth treatment continued in many walnut orchards. Almond growers continued to prepare orchard floors for harvest.

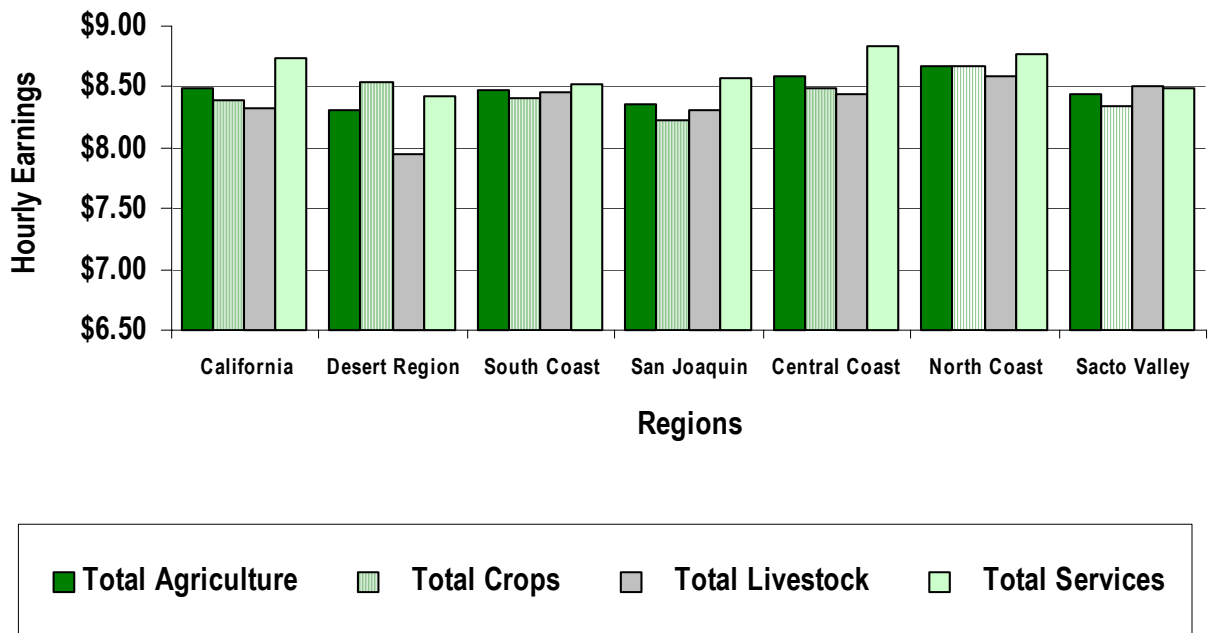
Scattered late movement of beef cows to higher summer pastures took place in central California. Feeder cattle shipments from foothill pastures had mostly ended. Dairy operators used misters and fans to cool animals during the heat. Sheep were moved to harvested grain and fallow fields. Bee activity continued in alfalfa seed and melon fields in the central region.

Agricultural Summary Charts

Wage and Salary Workers



Average Hourly Earnings



CALIFORNIA AGRICULTURAL EMPLOYMENT

Wage and Salary Workers (In Thousands)

| Industry | Jul 2002 | Jun 2002 | Jul 2001 |
|--------------------------------------------|--------------|--------------|--------------|
| Total Agriculture | 426.2 | 447.5 | 438.8 |
| Total Agricultural Production/Crops | 193.6 | 225.8 | 220.5 |
| Cash Grains | 2.6 | 1.6 | 3.1 |
| Rice | 1.2 | 1.0 | 2.1 |
| Other Cash Grains | 1.4 | 0.6 | 1.0 |
| Field Crops Except Grains | 9.4 | 20.2 | 11.7 |
| Cotton | 4.7 | 7.6 | 6.1 |
| Other Field Crops | 4.7 | 12.6 | 5.6 |
| Vegetables and Melons | 35.1 | 40.7 | 37.6 |
| Total Fruits and Tree Nuts | 82.6 | 104.2 | 101.5 |
| Berries | 17.7 | 24.2 | 19.5 |
| Grapes | 30.7 | 40.4 | 44.1 |
| Tree Nuts | 8.4 | 7.0 | 8.8 |
| Citrus Fruits | 2.8 | 1.6 | 4.1 |
| Deciduous Tree Fruit | 16.8 | 16.0 | 16.8 |
| Other Fruits & Nuts | 6.2 | 15.0 | 8.2 |
| Total Horticultural Specialties | 43.0 | 36.8 | 38.9 |
| Ornamental Floral & Nursery | 41.4 | 33.3 | 35.2 |
| Food Crops Grown Under Cover | 1.6 | 3.5 | 3.7 |
| General Farm Primarily Crop | 20.9 | 22.3 | 27.7 |
| Agricultural Production/Livestock | 28.5 | 25.6 | 29.4 |
| Beef Cattle Feed Lots | 2.1 | 1.5 | 0.8 |
| Beef Cattle Except Feed Lots | 4.6 | 1.7 | 3.7 |
| Dairy Farms | 14.5 | 13.8 | 16.8 |
| Chicken Eggs | 2.5 | 3.1 | 2.3 |
| Turkey & Turkey Eggs | 2.0 | 0.8 | 0.9 |
| Other Livestock | 2.8 | 4.7 | 4.9 |
| Total Agricultural Services | 204.1 | 196.1 | 188.9 |
| Soil Preparation Services | 1.7 | 0.7 | 1.5 |
| Crop Services | 45.9 | 45.2 | 52.4 |
| Plant Cultivate & Protection | 3.0 | 6.9 | 6.9 |
| Harvest Primarily by Machine | 6.3 | 4.1 | 7.7 |
| Preparation Services for Market | 36.1 | 33.5 | 36.8 |
| Cotton Ginning | 0.5 | 0.7 | 1.0 |
| Total Farm Labor & Management | 156.5 | 150.2 | 135.0 |
| Farm Labor Contractors | 144.4 | 138.3 | 123.8 |
| Farm Management Services | 12.1 | 11.9 | 11.2 |

Average Hourly Earnings (In dollars per hour)

| Industry | Jul 2002 | Jun 2002 | Jul 2001 |
|--------------------------------------------|-------------|-------------|-------------|
| Total Agriculture | 8.48 | 8.43 | 8.29 |
| Total Agricultural Production/Crops | 8.39 | 8.34 | 8.23 |
| Cash Grains | 8.42 | 8.27 | 8.34 |
| Rice | 8.52 | 8.27 | 8.54 |
| Other Cash Grains | 8.33 | 8.27 | 8.14 |
| Field Crops Except Grains | 8.38 | 8.43 | 8.28 |
| Cotton | 8.31 | 8.51 | 8.37 |
| Other Field Crops | 8.45 | 8.36 | 8.20 |
| Vegetables and Melons | 8.67 | 8.46 | 8.25 |
| Total Fruits and Tree Nuts | 8.24 | 8.30 | 8.03 |
| Berries | 8.04 | 8.24 | 7.77 |
| Grapes | 8.29 | 8.22 | 8.27 |
| Tree Nuts | 8.12 | 8.43 | 7.90 |
| Citrus Fruits | 8.34 | 8.29 | 7.86 |
| Deciduous Tree Fruit | 8.20 | 8.12 | 7.91 |
| Other Fruits & Nuts | 8.45 | 8.50 | 8.50 |
| Total Horticultural Specialties | 8.44 | 8.36 | 8.19 |
| Ornamental Floral & Nursery | 8.58 | 8.44 | 8.25 |
| Food Crops Grown Under Cover | 8.30 | 8.27 | 8.12 |
| General Farm Primarily Crop | 8.17 | 8.22 | 8.30 |
| Agricultural Production/Livestock | 8.32 | 8.34 | 8.12 |
| Beef Cattle Feed Lots | 7.97 | 8.22 | 8.15 |
| Beef Cattle Except Feed Lots | 8.52 | 8.55 | 8.31 |
| Dairy Farms | 8.50 | 8.58 | 8.48 |
| Chicken Eggs | 7.98 | 7.89 | 7.47 |
| Turkey & Turkey Eggs | 8.50 | 8.18 | 8.01 |
| Other Livestock | 8.45 | 8.60 | 8.33 |
| Total Agricultural Services | 8.74 | 8.62 | 8.52 |
| Soil Preparation Services | 8.88 | 8.71 | 8.59 |
| Crop Services | 8.88 | 8.74 | 8.81 |
| Plant Cultivate & Protection | 8.64 | 8.59 | 8.63 |
| Harvest Primarily by Machine | 8.84 | 8.78 | 8.91 |
| Preparation Services for Market | 8.31 | 8.26 | 8.17 |
| Cotton Ginning | 9.73 | 9.35 | 9.52 |
| Total Farm Labor & Management | 8.47 | 8.42 | 8.15 |
| Farm Labor Contractors | 8.28 | 8.20 | 7.97 |
| Farm Management Services | 8.66 | 8.64 | 8.33 |

CENTRAL COAST AGRICULTURAL EMPLOYMENT

Wage and Salary Workers (In Thousands)

| Industry | Jul 2002 | Jun 2002 | Jul 2001 |
|--------------------------------------------|-------------|-------------|-------------|
| Total Agriculture | 65.2 | 68.8 | 72.9 |
| Total Agricultural Production/Crops | 36.1 | 41.3 | 42.4 |
| Cash Grains | 0.0 | 0.0 | 0.0 |
| Rice | 0.0 | 0.0 | 0.0 |
| Other Cash Grains | 0.0 | 0.0 | 0.0 |
| Field Crops Except Grains | 0.2 | 6.5 | 0.2 |
| Cotton | 0.0 | 0.0 | 0.0 |
| Other Field Crops | 0.2 | 6.5 | 0.2 |
| Vegetables and Melons | 12.8 | 10.6 | 16.2 |
| Total Fruits and Tree Nuts | 12.3 | 13.8 | 13.3 |
| Berries | 11.5 | 12.7 | 10.8 |
| Grapes | 0.1 | 0.2 | 1.1 |
| Tree Nuts | 0.0 | 0.0 | 0.2 |
| Citrus Fruits | 0.0 | 0.0 | 0.0 |
| Deciduous Tree Fruit | 0.2 | 0.1 | 0.7 |
| Other Fruits & Nuts | 0.5 | 0.8 | 0.5 |
| Total Horticultural Specialties | 8.6 | 7.7 | 9.6 |
| Ornamental Floral & Nursery | 8.2 | 5.5 | 7.3 |
| Food Crops Grown Under Cover | 0.4 | 2.2 | 2.3 |
| General Farm Primarily Crop | 2.2 | 2.7 | 3.1 |
| Agricultural Production/Livestock | 0.4 | 0.3 | 1.1 |
| Beef Cattle Feed Lots | 0.0 | 0.0 | 0.0 |
| Beef Cattle Except Feed Lots | 0.0 | 0.0 | 0.4 |
| Dairy Farms | 0.1 | 0.3 | 0.1 |
| Chicken Eggs | 0.0 | 0.0 | 0.1 |
| Turkey & Turkey Eggs | 0.0 | 0.0 | 0.1 |
| Other Livestock | 0.3 | 0.0 | 0.4 |
| Total Agricultural Services | 28.7 | 27.2 | 29.4 |
| Soil Preparation Services | 1.3 | 0.1 | 0.3 |
| Crop Services | 10.4 | 10.2 | 11.2 |
| Plant Cultivate & Protection | 0.1 | 0.0 | 0.8 |
| Harvest Primarily by Machine | 2.6 | 2.1 | 2.8 |
| Preparation Services for Market | 7.7 | 8.1 | 7.6 |
| Cotton Ginning | 0.0 | 0.0 | 0.0 |
| Total Farm Labor & Management | 17.0 | 16.9 | 17.9 |
| Farm Labor Contractors | 15.9 | 13.7 | 16.8 |
| Farm Management Services | 1.1 | 3.2 | 1.1 |

Average Hourly Earnings (In dollars per hour)

| Industry | Jul 2002 | Jun 2002 | Jul 2001 |
|--------------------------------------------|-------------|-------------|-------------|
| Total Agriculture | 8.58 | 8.54 | 8.56 |
| Total Agricultural Production/Crops | 8.49 | 8.49 | 8.45 |
| Cash Grains | na | na | na |
| Rice | na | na | na |
| Other Cash Grains | na | na | na |
| Field Crops Except Grains | 8.52 | 8.52 | 8.48 |
| Cotton | na | na | na |
| Other Field Crops | 8.52 | 8.52 | 8.48 |
| Vegetables and Melons | 8.81 | 8.94 | 8.68 |
| Total Fruits and Tree Nuts | 8.40 | 8.36 | 8.40 |
| Berries | 8.68 | 8.50 | 8.28 |
| Grapes | 8.32 | 8.33 | 8.26 |
| Tree Nuts | na | na | 8.51 |
| Citrus Fruits | na | na | na |
| Deciduous Tree Fruit | 8.09 | 8.09 | 8.17 |
| Other Fruits & Nuts | 8.52 | 8.53 | 8.80 |
| Total Horticultural Specialties | 8.49 | 8.44 | 8.53 |
| Ornamental Floral & Nursery | 8.59 | 8.49 | 8.58 |
| Food Crops Grown Under Cover | 8.39 | 8.39 | 8.47 |
| General Farm Primarily Crop | 8.21 | 8.20 | 8.16 |
| Agricultural Production/Livestock | 8.44 | 8.38 | na |
| Beef Cattle Feed Lots | na | na | na |
| Beef Cattle Except Feed Lots | na | na | 8.25 |
| Dairy Farms | 8.54 | 8.38 | 8.38 |
| Chicken Eggs | na | na | 7.66 |
| Turkey & Turkey Eggs | na | na | 7.97 |
| Other Livestock | 8.33 | na | 8.49 |
| Total Agricultural Services | 8.83 | 8.74 | 8.68 |
| Soil Preparation Services | 9.10 | 8.88 | 9.09 |
| Crop Services | 8.78 | 8.77 | 8.64 |
| Plant Cultivate & Protection | 8.60 | na | 8.35 |
| Harvest Primarily by Machine | 9.28 | 9.07 | 9.08 |
| Preparation Services for Market | 8.45 | 8.46 | 8.48 |
| Cotton Ginning | na | na | na |
| Total Farm Labor & Management | 8.62 | 8.57 | 8.31 |
| Farm Labor Contractors | 8.42 | 8.27 | 8.08 |
| Farm Management Services | 8.82 | 8.87 | 8.53 |

na = not available

DESERT AGRICULTURAL EMPLOYMENT

Wage and Salary Workers (In Thousands)

| Industry | Jul 2002 | Jun 2002 | Jul 2001 |
|--------------------------------------------|-------------|-------------|-------------|
| Total Agriculture | 34.3 | 43.0 | 35.2 |
| Total Agricultural Production/Crops | 11.0 | 17.1 | 13.4 |
| Cash Grains | 0.0 | 0.0 | 0.1 |
| Rice | 0.0 | 0.0 | 0.0 |
| Other Cash Grains | 0.0 | 0.0 | 0.1 |
| Field Crops Except Grains | 1.2 | 1.7 | 1.5 |
| Cotton | 0.0 | 0.1 | 0.1 |
| Other Field Crops | 1.2 | 1.6 | 1.4 |
| Vegetables and Melons | 1.9 | 4.7 | 2.1 |
| Total Fruits and Tree Nuts | 3.1 | 7.3 | 6.2 |
| Berries | 0.0 | 0.0 | 0.1 |
| Grapes | 2.8 | 5.5 | 4.3 |
| Tree Nuts | 0.2 | 0.0 | 0.3 |
| Citrus Fruits | 0.0 | 0.2 | 0.4 |
| Deciduous Tree Fruit | 0.0 | 0.2 | 0.1 |
| Other Fruits & Nuts | 0.1 | 1.4 | 1.0 |
| Total Horticultural Specialties | 3.4 | 2.3 | 1.6 |
| Ornamental Floral & Nursery | 3.4 | 2.3 | 1.5 |
| Food Crops Grown Under Cover | 0.0 | 0.0 | 0.1 |
| General Farm Primarily Crop | 1.4 | 1.1 | 1.9 |
| Agricultural Production/Livestock | 5.7 | 4.2 | 5.6 |
| Beef Cattle Feed Lots | 1.1 | 0.2 | 0.3 |
| Beef Cattle Except Feed Lots | 0.0 | 0.9 | 0.6 |
| Dairy Farms | 2.8 | 1.8 | 3.0 |
| Chicken Eggs | 1.2 | 1.2 | 1.1 |
| Turkey & Turkey Eggs | 0.0 | 0.0 | 0.0 |
| Other Livestock | 0.6 | 0.1 | 0.6 |
| Total Agricultural Services | 17.6 | 21.7 | 16.2 |
| Soil Preparation Services | 0.0 | 0.1 | 0.2 |
| Crop Services | 4.4 | 5.0 | 4.5 |
| Plant Cultivate & Protection | 0.6 | 0.5 | 0.4 |
| Harvest Primarily by Machine | 0.9 | 0.2 | 0.9 |
| Preparation Services for Market | 2.9 | 4.2 | 2.7 |
| Cotton Ginning | 0.0 | 0.1 | 0.5 |
| Total Farm Labor & Management | 13.2 | 16.6 | 11.5 |
| Farm Labor Contractors | 12.0 | 15.0 | 10.1 |
| Farm Management Services | 1.2 | 1.6 | 1.4 |

Average Hourly Earnings (In dollars per hour)

| Industry | Jul 2002 | Jun 2002 | Jul 2001 |
|--------------------------------------------|-------------|-------------|-------------|
| Total Agriculture | 8.30 | 8.29 | 8.20 |
| Total Agricultural Production/Crops | 8.54 | 8.21 | 8.12 |
| Cash Grains | na | na | 8.14 |
| Rice | na | na | na |
| Other Cash Grains | na | na | 8.14 |
| Field Crops Except Grains | 8.93 | 8.56 | 8.84 |
| Cotton | na | 8.65 | 9.61 |
| Other Field Crops | 8.93 | 8.46 | 8.07 |
| Vegetables and Melons | 9.01 | 8.28 | 7.87 |
| Total Fruits and Tree Nuts | 8.14 | 8.04 | 7.73 |
| Berries | na | na | 7.74 |
| Grapes | 7.91 | 7.91 | 7.86 |
| Tree Nuts | 7.94 | na | 7.29 |
| Citrus Fruits | na | 8.07 | 7.61 |
| Deciduous Tree Fruit | na | 7.57 | 7.25 |
| Other Fruits & Nuts | 8.58 | 8.59 | 8.61 |
| Total Horticultural Specialties | 8.56 | 8.15 | 7.91 |
| Ornamental Floral & Nursery | 8.56 | 8.15 | 7.84 |
| Food Crops Grown Under Cover | na | na | 7.98 |
| General Farm Primarily Crop | 8.04 | 8.04 | 8.26 |
| Agricultural Production/Livestock | 7.96 | 8.12 | 7.93 |
| Beef Cattle Feed Lots | 7.84 | 8.19 | 8.11 |
| Beef Cattle Except Feed Lots | na | 8.49 | 7.96 |
| Dairy Farms | 8.46 | 8.45 | 8.50 |
| Chicken Eggs | 7.44 | 7.34 | 7.13 |
| Turkey & Turkey Eggs | na | na | na |
| Other Livestock | 8.08 | 8.13 | 7.94 |
| Total Agricultural Services | 8.42 | 8.54 | 8.55 |
| Soil Preparation Services | na | 8.71 | 8.71 |
| Crop Services | 8.54 | 8.66 | 8.77 |
| Plant Cultivate & Protection | 8.49 | 8.42 | 8.47 |
| Harvest Primarily by Machine | 9.03 | 8.90 | 9.55 |
| Preparation Services for Market | 8.11 | 8.16 | 7.83 |
| Cotton Ginning | na | 9.15 | 9.23 |
| Total Farm Labor & Management | 8.29 | 8.26 | 8.18 |
| Farm Labor Contractors | 8.19 | 8.13 | 7.92 |
| Farm Management Services | 8.39 | 8.39 | 8.43 |

na = not available

NORTH COAST AGRICULTURAL EMPLOYMENT

Wage and Salary Workers (In Thousands)

| Industry | Jul 2002 | Jun 2002 | Jul 2001 |
|--------------------------------------------|-------------|-------------|-------------|
| Total Agriculture | 15.2 | 16.3 | 19.5 |
| Total Agricultural Production/Crops | 9.6 | 11.1 | 13.1 |
| Cash Grains | 0.0 | 0.0 | 0.0 |
| Rice | 0.0 | 0.0 | 0.0 |
| Other Cash Grains | 0.0 | 0.0 | 0.0 |
| Field Crops Except Grains | 0.2 | 0.0 | 0.1 |
| Cotton | 0.0 | 0.0 | 0.0 |
| Other Field Crops | 0.2 | 0.0 | 0.1 |
| Vegetables and Melons | 0.1 | 0.3 | 0.3 |
| Total Fruits and Tree Nuts | 8.0 | 10.3 | 10.7 |
| Berries | 0.0 | 0.0 | 0.0 |
| Grapes | 7.4 | 9.4 | 9.8 |
| Tree Nuts | 0.0 | 0.1 | 0.1 |
| Citrus Fruits | 0.0 | 0.0 | 0.0 |
| Deciduous Tree Fruit | 0.6 | 0.3 | 0.7 |
| Other Fruits & Nuts | 0.0 | 0.5 | 0.1 |
| Total Horticultural Specialties | 1.3 | 0.1 | 1.6 |
| Ornamental Floral & Nursery | 1.3 | 0.1 | 1.4 |
| Food Crops Grown Under Cover | 0.0 | 0.0 | 0.2 |
| General Farm Primarily Crop | 0.0 | 0.4 | 0.4 |
| Agricultural Production/Livestock | 2.2 | 2.4 | 1.9 |
| Beef Cattle Feed Lots | 0.0 | 0.0 | 0.1 |
| Beef Cattle Except Feed Lots | 0.0 | 0.0 | 0.2 |
| Dairy Farms | 1.2 | 0.5 | 1.0 |
| Chicken Eggs | 0.3 | 0.8 | 0.1 |
| Turkey & Turkey Eggs | 0.7 | 0.0 | 0.1 |
| Other Livestock | 0.0 | 1.1 | 0.4 |
| Total Agricultural Services | 3.4 | 2.8 | 4.5 |
| Soil Preparation Services | 0.0 | 0.1 | 0.1 |
| Crop Services | 0.0 | 0.0 | 0.8 |
| Plant Cultivate & Protection | 0.0 | 0.0 | 0.2 |
| Harvest Primarily by Machine | 0.0 | 0.0 | 0.0 |
| Preparation Services for Market | 0.0 | 0.0 | 0.6 |
| Cotton Ginning | 0.0 | 0.0 | 0.0 |
| Total Farm Labor & Management | 3.4 | 2.7 | 3.6 |
| Farm Labor Contractors | 0.8 | 0.9 | 0.8 |
| Farm Management Services | 2.6 | 1.8 | 2.8 |

na = not available

Average Hourly Earnings (In dollars per hour)

| Industry | Jul 2002 | Jun 2002 | Jul 2001 |
|--------------------------------------------|-------------|-------------|-------------|
| Total Agriculture | 8.68 | 8.70 | 8.42 |
| Total Agricultural Production/Crops | 8.67 | 8.61 | 8.50 |
| Cash Grains | na | na | na |
| Rice | na | na | na |
| Other Cash Grains | na | na | na |
| Field Crops Except Grains | 8.36 | na | 8.47 |
| Cotton | na | na | na |
| Other Field Crops | 8.36 | na | 8.47 |
| Vegetables and Melons | 8.82 | 8.67 | 8.64 |
| Total Fruits and Tree Nuts | 8.66 | 8.62 | 8.66 |
| Berries | na | na | na |
| Grapes | 8.60 | 8.59 | 8.76 |
| Tree Nuts | na | 8.49 | 8.28 |
| Citrus Fruits | na | na | na |
| Deciduous Tree Fruit | 8.71 | 8.71 | 8.87 |
| Other Fruits & Nuts | na | 8.70 | 8.71 |
| Total Horticultural Specialties | 8.85 | 8.69 | 8.30 |
| Ornamental Floral & Nursery | 8.85 | 8.69 | 8.48 |
| Food Crops Grown Under Cover | na | na | 8.12 |
| General Farm Primarily Crop | na | 8.45 | 8.43 |
| Agricultural Production/Livestock | 8.59 | 8.79 | 8.15 |
| Beef Cattle Feed Lots | na | na | 8.17 |
| Beef Cattle Except Feed Lots | na | na | 8.00 |
| Dairy Farms | 8.40 | 8.81 | 8.18 |
| Chicken Eggs | 8.41 | 8.50 | 8.10 |
| Turkey & Turkey Eggs | 8.97 | na | 8.10 |
| Other Livestock | na | 9.06 | 8.34 |
| Total Agricultural Services | 8.77 | 8.69 | 8.62 |
| Soil Preparation Services | na | 8.62 | 8.92 |
| Crop Services | na | na | 8.40 |
| Plant Cultivate & Protection | na | na | 8.63 |
| Harvest Primarily by Machine | na | na | na |
| Preparation Services for Market | na | na | 8.17 |
| Cotton Ginning | na | na | na |
| Total Farm Labor & Management | 8.77 | 8.77 | 8.53 |
| Farm Labor Contractors | 8.62 | 8.59 | 8.15 |
| Farm Management Services | 8.92 | 8.94 | 8.91 |

SOUTH COAST AGRICULTURAL EMPLOYMENT

Wage and Salary Workers (In Thousands)

| Industry | Jul 2002 | Jun 2002 | Jul 2001 |
|--------------------------------------------|-------------|-------------|-------------|
| Total Agriculture | 59.4 | 74.9 | 52.3 |
| Total Agricultural Production/Crops | 45.1 | 55.0 | 44.4 |
| Cash Grains | 0.2 | 0.2 | 0.1 |
| Rice | 0.0 | 0.0 | 0.0 |
| Other Cash Grains | 0.2 | 0.2 | 0.1 |
| Field Crops Except Grains | 0.3 | 2.0 | 0.4 |
| Cotton | 0.0 | 0.0 | 0.1 |
| Other Field Crops | 0.3 | 2.0 | 0.3 |
| Vegetables and Melons | 10.8 | 10.1 | 9.8 |
| Total Fruits and Tree Nuts | 8.4 | 20.7 | 13.3 |
| Berries | 6.1 | 11.5 | 7.7 |
| Grapes | 0.3 | 0.4 | 2.3 |
| Tree Nuts | 0.1 | 0.0 | 0.1 |
| Citrus Fruits | 0.8 | 0.7 | 1.6 |
| Deciduous Tree Fruit | 0.0 | 0.4 | 0.1 |
| Other Fruits & Nuts | 1.1 | 7.7 | 1.5 |
| Total Horticultural Specialties | 21.4 | 17.6 | 17.2 |
| Ornamental Floral & Nursery | 20.8 | 16.6 | 16.4 |
| Food Crops Grown Under Cover | 0.6 | 1.0 | 0.8 |
| General Farm Primarily Crop | 4.0 | 4.4 | 3.6 |
| Agricultural Production/Livestock | 2.1 | 2.6 | 2.0 |
| Beef Cattle Feed Lots | 0.0 | 0.0 | 0.0 |
| Beef Cattle Except Feed Lots | 0.7 | 0.2 | 0.3 |
| Dairy Farms | 0.2 | 0.0 | 0.2 |
| Chicken Eggs | 0.6 | 1.0 | 0.4 |
| Turkey & Turkey Eggs | 0.0 | 0.0 | 0.0 |
| Other Livestock | 0.6 | 1.4 | 1.1 |
| Total Agricultural Services | 12.2 | 17.3 | 5.9 |
| Soil Preparation Services | 0.0 | 0.0 | 0.2 |
| Crop Services | 2.1 | 2.3 | 3.1 |
| Plant Cultivate & Protection | 0.6 | 1.3 | 0.6 |
| Harvest Primarily by Machine | 0.0 | 0.0 | 0.7 |
| Preparation Services for Market | 1.5 | 1.0 | 1.8 |
| Cotton Ginning | 0.0 | 0.0 | 0.0 |
| Total Farm Labor & Management | 10.1 | 15.0 | 2.6 |
| Farm Labor Contractors | 8.9 | 13.0 | 1.2 |
| Farm Management Services | 1.2 | 2.0 | 1.4 |

Average Hourly Earnings (In dollars per hour)

| Industry | Jul 2002 | Jun 2002 | Jul 2001 |
|--------------------------------------------|-------------|-------------|-------------|
| Total Agriculture | 8.47 | 8.40 | 8.28 |
| Total Agricultural Production/Crops | 8.41 | 8.41 | 8.24 |
| Cash Grains | 8.65 | 8.66 | 8.50 |
| Rice | na | na | na |
| Other Cash Grains | 8.65 | 8.66 | 8.50 |
| Field Crops Except Grains | 8.35 | 8.39 | 8.20 |
| Cotton | na | na | 8.10 |
| Other Field Crops | 8.35 | 8.39 | 8.29 |
| Vegetables and Melons | 8.61 | 8.52 | 8.11 |
| Total Fruits and Tree Nuts | 8.23 | 8.28 | 7.90 |
| Berries | 7.84 | 7.97 | 7.51 |
| Grapes | 8.40 | 8.13 | 8.17 |
| Tree Nuts | 8.00 | na | 7.60 |
| Citrus Fruits | 8.49 | 8.49 | 8.39 |
| Deciduous Tree Fruit | na | 8.18 | 7.34 |
| Other Fruits & Nuts | 8.44 | 8.61 | 8.40 |
| Total Horticultural Specialties | 8.49 | 8.39 | 8.17 |
| Ornamental Floral & Nursery | 8.67 | 8.60 | 8.27 |
| Food Crops Grown Under Cover | 8.31 | 8.18 | 8.06 |
| General Farm Primarily Crop | 8.15 | 8.25 | 8.57 |
| Agricultural Production/Livestock | 8.46 | 8.43 | 8.13 |
| Beef Cattle Feed Lots | na | na | na |
| Beef Cattle Except Feed Lots | 8.61 | 8.63 | 8.65 |
| Dairy Farms | 8.31 | na | 8.50 |
| Chicken Eggs | 8.35 | 8.10 | 7.09 |
| Turkey & Turkey Eggs | na | na | na |
| Other Livestock | 8.58 | 8.56 | 8.28 |
| Total Agricultural Services | 8.52 | 8.35 | 8.47 |
| Soil Preparation Services | na | na | 8.60 |
| Crop Services | 8.60 | 8.37 | 8.62 |
| Plant Cultivate & Protection | 8.79 | 8.56 | 8.80 |
| Harvest Primarily by Machine | na | na | 8.91 |
| Preparation Services for Market | 8.41 | 8.17 | 8.15 |
| Cotton Ginning | na | na | na |
| Total Farm Labor & Management | 8.45 | 8.33 | 8.18 |
| Farm Labor Contractors | 8.20 | 8.13 | 8.05 |
| Farm Management Services | 8.69 | 8.53 | 8.30 |

na = not available

SAN JOAQUIN AGRICULTURAL EMPLOYMENT

Wage and Salary Workers (In Thousands)

| Industry | Jul 2002 | Jun 2002 | Jul 2001 |
|--------------------------------------------|--------------|--------------|--------------|
| Total Agriculture | 222.5 | 217.3 | 225.4 |
| Total Agricultural Production/Crops | 72.6 | 83.2 | 84.5 |
| Cash Grains | 0.8 | 0.1 | 0.5 |
| Rice | 0.2 | 0.0 | 0.1 |
| Other Cash Grains | 0.6 | 0.1 | 0.4 |
| Field Crops Except Grains | 6.8 | 9.5 | 8.7 |
| Cotton | 4.7 | 7.5 | 5.9 |
| Other Field Crops | 2.1 | 2.0 | 2.8 |
| Vegetables and Melons | 6.4 | 13.0 | 7.2 |
| Total Fruits and Tree Nuts | 43.2 | 45.0 | 48.4 |
| Berries | 0.1 | 0.0 | 0.1 |
| Grapes | 19.0 | 23.7 | 25.5 |
| Tree Nuts | 5.4 | 5.0 | 4.9 |
| Citrus Fruits | 2.0 | 0.7 | 2.1 |
| Deciduous Tree Fruit | 13.4 | 11.3 | 12.1 |
| Other Fruits & Nuts | 3.3 | 4.3 | 3.7 |
| Total Horticultural Specialties | 6.2 | 6.3 | 4.8 |
| Ornamental Floral & Nursery | 5.6 | 6.2 | 4.6 |
| Food Crops Grown Under Cover | 0.6 | 0.1 | 0.2 |
| General Farm Primarily Crop | 9.2 | 9.3 | 14.9 |
| Agricultural Production/Livestock | 16.7 | 14.5 | 17.2 |
| Beef Cattle Feed Lots | 1.0 | 1.0 | 0.4 |
| Beef Cattle Except Feed Lots | 3.2 | 0.5 | 1.7 |
| Dairy Farms | 9.6 | 11.1 | 11.9 |
| Chicken Eggs | 0.4 | 0.1 | 0.6 |
| Turkey & Turkey Eggs | 1.3 | 0.8 | 0.7 |
| Other Livestock | 1.2 | 1.0 | 1.9 |
| Total Agricultural Services | 133.2 | 119.6 | 123.7 |
| Soil Preparation Services | 0.4 | 0.4 | 0.6 |
| Crop Services | 26.7 | 25.1 | 29.2 |
| Plant Cultivate & Protection | 1.4 | 4.6 | 4.2 |
| Harvest Primarily by Machine | 2.4 | 1.2 | 2.7 |
| Preparation Services for Market | 22.4 | 18.7 | 21.8 |
| Cotton Ginning | 0.5 | 0.6 | 0.5 |
| Total Farm Labor & Management | 106.1 | 94.1 | 93.9 |
| Farm Labor Contractors | 100.7 | 90.8 | 89.9 |
| Farm Management Services | 5.4 | 3.3 | 4.0 |

na = not available

Average Hourly Earnings (In dollars per hour)

| Industry | Jul 2002 | Jun 2002 | Jul 2001 |
|--------------------------------------------|-------------|-------------|-------------|
| Total Agriculture | 8.37 | 8.35 | 8.18 |
| Total Agricultural Production/Crops | 8.22 | 8.18 | 8.00 |
| Cash Grains | 8.24 | 8.00 | 8.00 |
| Rice | 8.47 | na | 8.27 |
| Other Cash Grains | 8.00 | 8.00 | 7.72 |
| Field Crops Except Grains | 8.34 | 8.28 | 7.66 |
| Cotton | 8.31 | 8.36 | 7.41 |
| Other Field Crops | 8.36 | 8.19 | 7.90 |
| Vegetables and Melons | 8.28 | 8.16 | 8.46 |
| Total Fruits and Tree Nuts | 8.11 | 8.26 | 7.77 |
| Berries | 7.60 | na | 7.28 |
| Grapes | 8.31 | 8.21 | 8.07 |
| Tree Nuts | 8.30 | 8.44 | 7.86 |
| Citrus Fruits | 8.19 | 8.30 | 7.58 |
| Deciduous Tree Fruit | 7.88 | 8.01 | 7.70 |
| Other Fruits & Nuts | 8.37 | 8.32 | 8.10 |
| Total Horticultural Specialties | 8.33 | 8.34 | 7.88 |
| Ornamental Floral & Nursery | 8.45 | 8.45 | 7.84 |
| Food Crops Grown Under Cover | 8.21 | 8.23 | 7.92 |
| General Farm Primarily Crop | 8.06 | 8.03 | 8.25 |
| Agricultural Production/Livestock | 8.31 | 8.36 | 8.25 |
| Beef Cattle Feed Lots | 8.10 | 8.17 | 8.17 |
| Beef Cattle Except Feed Lots | 8.45 | 8.61 | 8.61 |
| Dairy Farms | 8.69 | 8.76 | 8.83 |
| Chicken Eggs | 7.70 | 7.63 | 7.39 |
| Turkey & Turkey Eggs | 8.03 | 8.18 | 7.97 |
| Other Livestock | 8.87 | 8.83 | 8.53 |
| Total Agricultural Services | 8.57 | 8.52 | 8.29 |
| Soil Preparation Services | 8.66 | 8.62 | 8.24 |
| Crop Services | 8.71 | 8.74 | 8.75 |
| Plant Cultivate & Protection | 8.61 | 8.79 | 8.68 |
| Harvest Primarily by Machine | 8.39 | 8.49 | 8.43 |
| Preparation Services for Market | 8.12 | 8.13 | 8.08 |
| Cotton Ginning | 9.73 | 9.54 | 9.81 |
| Total Farm Labor & Management | 8.33 | 8.20 | 7.87 |
| Farm Labor Contractors | 8.09 | 7.94 | 7.73 |
| Farm Management Services | 8.56 | 8.45 | 8.01 |

SACRAMENTO VALLEY AGRICULTURAL EMPLOYMENT

Wage and Salary Workers (In Thousands)

| Industry | Jul 2002 | Jun 2002 | Jul 2001 |
|--------------------------------------------|-------------|-------------|-------------|
| Total Agriculture | 29.6 | 27.2 | 33.5 |
| Total Agricultural Production/Crops | 19.2 | 18.1 | 22.7 |
| Cash Grains | 1.6 | 1.3 | 2.4 |
| Rice | 1.0 | 1.0 | 2.0 |
| Other Cash Grains | 0.6 | 0.3 | 0.4 |
| Field Crops Except Grains | 0.7 | 0.5 | 0.8 |
| Cotton | 0.0 | 0.0 | 0.0 |
| Other Field Crops | 0.7 | 0.5 | 0.8 |
| Vegetables and Melons | 3.1 | 2.0 | 2.0 |
| Total Fruits and Tree Nuts | 7.6 | 7.1 | 9.6 |
| Berries | 0.0 | 0.0 | 0.8 |
| Grapes | 1.1 | 1.2 | 1.1 |
| Tree Nuts | 2.7 | 1.9 | 3.2 |
| Citrus Fruits | 0.0 | 0.0 | 0.0 |
| Deciduous Tree Fruit | 2.6 | 3.7 | 3.1 |
| Other Fruits & Nuts | 1.2 | 0.3 | 1.4 |
| Total Horticultural Specialties | 2.1 | 2.8 | 4.1 |
| Ornamental Floral & Nursery | 2.1 | 2.6 | 4.0 |
| Food Crops Grown Under Cover | 0.0 | 0.2 | 0.1 |
| General Farm Primarily Crop | 4.1 | 4.4 | 3.8 |
| Agricultural Production/Livestock | 1.4 | 1.6 | 1.6 |
| Beef Cattle Feed Lots | 0.0 | 0.3 | 0.0 |
| Beef Cattle Except Feed Lots | 0.7 | 0.1 | 0.5 |
| Dairy Farms | 0.6 | 0.1 | 0.6 |
| Chicken Eggs | 0.0 | 0.0 | 0.0 |
| Turkey & Turkey Eggs | 0.0 | 0.0 | 0.0 |
| Other Livestock | 0.1 | 1.1 | 0.5 |
| Total Agricultural Services | 9.0 | 7.5 | 9.2 |
| Soil Preparation Services | 0.0 | 0.0 | 0.1 |
| Crop Services | 2.3 | 2.6 | 3.6 |
| Plant Cultivate & Protection | 0.3 | 0.5 | 0.7 |
| Harvest Primarily by Machine | 0.4 | 0.6 | 0.6 |
| Preparation Services for Market | 1.6 | 1.5 | 2.3 |
| Cotton Ginning | 0.0 | 0.0 | 0.0 |
| Total Farm Labor & Management | 6.7 | 4.9 | 5.5 |
| Farm Labor Contractors | 6.1 | 4.9 | 5.0 |
| Farm Management Services | 0.6 | 0.0 | 0.5 |

na = not available

Average Hourly Earnings (In dollars per hour)

| Industry | Jul 2002 | Jun 2002 | Jul 2001 |
|--------------------------------------------|-------------|-------------|-------------|
| Total Agriculture | 8.44 | 8.34 | 8.23 |
| Total Agricultural Production/Crops | 8.34 | 8.25 | 8.14 |
| Cash Grains | 8.45 | 8.21 | 8.50 |
| Rice | 8.57 | 8.27 | 8.81 |
| Other Cash Grains | 8.33 | 8.14 | 8.19 |
| Field Crops Except Grains | 8.19 | 8.23 | 7.96 |
| Cotton | na | na | na |
| Other Field Crops | 8.19 | 8.23 | 7.96 |
| Vegetables and Melons | 8.46 | 8.19 | 7.73 |
| Total Fruits and Tree Nuts | 8.23 | 8.21 | 8.18 |
| Berries | na | na | 8.03 |
| Grapes | 8.19 | 8.13 | 8.50 |
| Tree Nuts | 8.25 | 8.35 | 7.88 |
| Citrus Fruits | na | na | na |
| Deciduous Tree Fruit | 8.12 | 8.13 | 8.14 |
| Other Fruits & Nuts | 8.34 | 8.24 | 8.35 |
| Total Horticultural Specialties | 8.35 | 8.28 | 8.33 |
| Ornamental Floral & Nursery | 8.35 | 8.28 | 8.51 |
| Food Crops Grown Under Cover | na | 8.27 | 8.15 |
| General Farm Primarily Crop | 8.37 | 8.37 | 8.13 |
| Agricultural Production/Livestock | 8.50 | 8.43 | 8.41 |
| Beef Cattle Feed Lots | na | 8.31 | na |
| Beef Cattle Except Feed Lots | 8.51 | 8.47 | 8.36 |
| Dairy Farms | 8.62 | 8.51 | 8.50 |
| Chicken Eggs | na | na | na |
| Turkey & Turkey Eggs | na | na | na |
| Other Livestock | 8.37 | 8.44 | 8.37 |
| Total Agricultural Services | 8.49 | 8.33 | 8.14 |
| Soil Preparation Services | na | na | 8.00 |
| Crop Services | 8.61 | 8.53 | 8.57 |
| Plant Cultivate & Protection | 8.73 | 8.59 | 8.85 |
| Harvest Primarily by Machine | 8.65 | 8.64 | 8.57 |
| Preparation Services for Market | 8.46 | 8.36 | 8.29 |
| Cotton Ginning | na | na | na |
| Total Farm Labor & Management | 8.37 | 8.13 | 7.85 |
| Farm Labor Contractors | 8.18 | 8.13 | 7.87 |
| Farm Management Services | 8.56 | na | 7.82 |

DATA NOTES

Data Sources:

These data are obtained from two sources: the Employment Development Department (EDD) Covered Employment and Wages (ES-202) data files and a monthly survey conducted by the California Agricultural Statistical Service (CASS) of the U.S. Department of Agriculture (USDA) and the Labor Market Information Division of EDD of 4,200 agricultural employers. The sample was selected to be representative of the state's agricultural employers by size, geographic location, and industry categories. Sample data are gathered for the survey week that includes the 12th calendar day of the month. All data in this bulletin represent activities taking place during this mid-month period. Same month prior year employment data are benchmarked to the ES-202 data files maintained by EDD.

Data Comments:

To aid in accurate usage and interpretation of the data, please note the following:

- **Agricultural Services employment survey data may be recalculated; historical trend information is used to adjust sample data when low response rates occur.**
- Regional data may show greater variability than statewide data because of small sample size and variable reporting patterns in specific industries.
- Current month regional estimates are based on the recorded addresses of owner-operators. Same month prior year regional data are based on worksite locations. Significant differences between regional current month and same month prior year data could result, although statewide totals might be comparable.
- Where data cannot be estimated because of inadequate sample reporting, the letters "na" have been entered into the field to indicate estimates are not available.
- Wage data include wages of supervisors and hired non-production workers (primarily administrative personnel). Piece rate data are also included where applicable.
- Fishing, forestry, and hunting industry data are not included in the Agricultural Services estimates. Unique seasonal industry patterns of employment make producing employment estimates for these industries problematic.
- Employment data do not include employers of unpaid family workers.
- Agricultural workers who are employed by farm labor contractors are reported in Agricultural Services under that industry category. Employment levels in Crop Production and Livestock Production do not reflect their activities in the associated industries that contract with the farm labor contractors.

Total agricultural employment and hourly earnings estimates in this bulletin are derived from the monthly Current Employment Statistics for Agriculture project. Estimates in this bulletin will differ from other agricultural estimates published by EDD and the USDA because of differences in the number of industries covered and in the definition of agricultural workers.

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